

3.600 St. Louis County
Wes La Sanitary Landfill

SW Env file
recorded



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Division of Environmental Quality
Division of Geology and Land Survey
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STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

St. Louis Regional Office
8460 Watson Road, Suite 217
St. Louis, MO 63119
314-849-1313

RECEIVED
MAR 28 1989

WASTE MANAGEMENT
PROGRAM

March 21, 1989

Michael J. Whitlock
Laidlaw Waste Systems, Inc.
13570 St. Charles Rock Road
Bridgeton, MO 63044

Dear Mr. Whitlock:

Enclosed is a report of an inspection conducted by Mr. Kevin Arnold of my staff. No violations were noted during the inspection.

Please review the enclosure, and if you have any questions, please contact the St. Louis Regional Office.

Sincerely,

ST. LOUIS REGIONAL OFFICE

Stuart Bean
Stuart Bean
Chief, Solid Waste Unit

0714
Site: West Lake LDF
ID# MMD079900932
Brookville
Owner: BUI 2
3-21-89

SB:ps

cc: ✓ CO - WMP
City of Bridgeton
St. Louis County Health Dept.

40249218



SUPERFUND RECORDS

DNR 0040.

3.0 S Louis County
West Lake Sanitary Landfill

SOLID WASTE FACILITY INSPECTION REPORT

Facility :

West Lake Landfill
St. Louis County
Sanitary Landfill
MoDNR Permit # 118912

Introduction :

An inspection of the West Lake Sanitary Landfill was conducted on March 17, 1989, to assess compliance with applicable requirements pursuant to the Missouri Solid Waste Management Law. Mr. Michael J. Whitlock represented the facility, Mr. Brad Bomanz represented the St. Louis County Department of Community Health and Medical Care and Mr. Kevin Arnold represented the Missouri Department of Natural Resources.

Findings:

1. The facility was being operated properly in accordance with accepted landfilling procedures.
2. The quarry floor contained at least 1 acre of stormwater.

DISCUSSION:

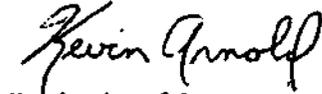
In general, the facility appeared to be properly operated and maintained. A problem was observed within the quarry itself with regards to stormwater. At least an acre of water of unknown depth was present upon the quarry floor. It was reported during the inspection that a misunderstanding between landfill and rock quarry operators caused the removal of the landfill's discharge pipe. As a result, pumping operations were delayed. During the inspection it was noted the problem has been eliminated and pumping operations had begun. No further problems are anticipated and the water removed from the quarry pit is being treated as leachate.

RECOMMENDATIONS:

1. Continue present operations as observed.
2. Take appropriate steps to insure and maintain the integrity of the leachate pumping system.

SUBMITTED BY:

ST. LOUIS REGIONAL OFFICE



Kevin Arnold
Environmental Specialist

APPROVED BY:

ST. LOUIS REGIONAL OFFICE



F. Donald Maddox
Regional Administrator

FDM/KA:ps

**MISSOURI DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Quality**

SANITARY LANDFILL SURVEILLANCE RECORD

Date: 03-17-89 Days/Week Open: 6

Name of Sanitary Landfill: WESTLAKE SANITARY LANDFILL

Permit No.: 118916 County: ST. LOUIS

Owner: LAIDLAW WASTES SYSTEMS INC. Operator: SAME

Address: 13570 ST. CHARLES ROCK ROAD Address: _____

BRIDGETON MO. 63042 _____

I. Remaining Life of Landfill: Permittee: WESTLAKE LANDFILL INC.

A. Estimated quantity of waste accepted, 1200 yds or tons (X) Address: _____

B. Estimated life of remaining landfill approved by engineering plans, 11 yrs. Phone: _____

C. Fixed operating term date, _____.

II. Check all subsections: BAT-Satisfactory; UNS-Unsatisfactory; or NA-Not Applicable. If necessary, describe "UNS" violations under "Remarks".

Section	Subsection	Y	U	N/A	Section	Subsection	Y	U	N/A
10.000	10.000-1.000 Permit Issuance, Special Operating Permits, and Permit Exemptions				11.000	Operating manual available to employees and the department.	X		
11.000	11.000-1.000 Authorization to operate obtained prior to acceptance of waste.			X	11.000-1.000	Boundary markers, benchmarks, horizontal control stations and construction stakes marked and identified.	X		
12.000	12.000-1.000 Site constructed and operated per approved terms and conditions of permit.	X			11.000-1.000	Missing or displaced benchmarks or horizontal control stations replaced or re-established.	X		
13.000	13.000-1.000 Site operated by a certified solid waste technician.	X			11.000-1.000	Missing or displaced construction stakes replaced or re-established as necessary.	X		
14.000	14.000-1.000 Sanitary Landfills Design and Operation				11.000-1.000	Permanent monuments and boundary markers placed prior to receiving authorization to operate.	X		
15.000	15.000-1.000 Solid waste crushed on solid ground and pushed onto working face near bottom of the cell.	X			11.000-1.000	Construction stakes marking the active area placed prior to deposition of waste in individual areas.	X		
16.000	16.000-1.000 Land: dead animals covered immediately with soil or solid waste.	X			12.000	Surface watercourses and runoff properly diverted from the landfill. Sanitary landfill construction and grading to promote rapid surface water runoff without excessive erosion.	X		
17.000	17.000-1.000 The disposal of special waste approved in the permit conducted in accordance with approved design and plans.	X			13.000	Contact with solid waste shall be minimized by daily operation.	X		
18.000	18.000-1.000 Written approval from the department obtained for special waste not approved in permit.	X			13.000-1.000	Leachate collection system properly installed and operated in accordance with the permit and approved plans.	X		
19.000	19.000-1.000 Approved special waste disposed of properly.	X			13.000-1.000	Leachate generated on-site controlled on-site and not allowed to discharge off the sanitary landfill or discharge into waters of the state.	X		
20.000	20.000-1.000 Signs posted at entrance listing excluded waste.	X			13.000-1.000	Leachate and runoff managed in accordance with the Missouri Clean Water Law and Rules.	X		
21.000	21.000-1.000 Procedure for screening and removal of excluded wastes.	X			14.000-1.000	Groundwater monitoring wells installed per approved plans.	X		
22.000	22.000-1.000 Large dead animals placed in pit and covered with four feet of compacted soil.	X			14.000-1.000	Groundwater monitoring wells operational prior to acceptance of waste, unless other arrangements are approved.	X		
23.000	23.000-1.000 Exclude wastes listed in subsection 13.000-1.000 of this rule shall not be accepted for disposal.	X			15.000	Burning of solid waste prohibited unless a burning permit is obtained from the department or, when appropriate, local pollution control agency.	X		
24.000	24.000-1.000 Site accessible in all weather conditions. Temporary roads provided for delivery to working face.	X			16.000-1.000	Decomposition gas control systems implemented as necessary to prevent migration and accumulation.	X		
25.000	25.000-1.000 If access roads or public roads are flooded, alternate sanitary landfill is available.			X					
26.000	26.000-1.000 Construction and operation of the site is conducted in accordance with engineering plans and specifications.	X							
27.000	27.000-1.000 Minimum fifty foot buffer zone maintained between site operations and property boundary.	X							

		127	128	129			127	128	129		
(12)(C)1.A.	Decomposition gas not to concentrate in swell to more than five percent L.L. (dry mass).	X					(13)(C)6.	Regrading and recovering to maintain cover along and later.	X		
(12)(C)1.B.	Decomposition gases not allowed to concentrate in the soil at the property boundary above five percent L.L. for methane.	X					(13)(C)7.	Borrow areas reclaimed in accordance with approved plans.	X		
(12)(C)1.C.	Decomposition gas monitoring results submitted to the department as required by statute.	X					(14)(C)1.	Adequate solid waste handling equipment on-site and operated as necessary.	X		
(12)(C)1.D.	Landfill operated in compliance with applicable requirements of Chapter 643, RSMo and rules.	X					(15)(C)1.A.	Solid waste to be compacted, spread in layers no more than two feet thick and confined to smallest practical size.	X		
(12)(C)1.E.	Vector control programs implemented when necessary.	X					(15)(C)1.B.	Waste compacted to smallest practical volume.	X		
(12)(C)1.F.	Litter control devices utilized near working face and elsewhere as needed. Litter collected from fences, and the ground surface, and incorporated into the active cell at the end of each day or encapsulated.	X					(15)(C)1.C.	Cover compacted as much as practical.	X		
(12)(C)1.G.	Vacuoes readily moved by wind covered as necessary to prevent their becoming airborne and scattered.	X					(15)(C)1.D.	Preventive maintenance performed on equipment.	X		
(12)(C)1.H.	On-site vegetation cleared only as necessary.			X			(15)(C)1.E.	Solid waste not disposed of in water to prohibit spreading and compaction or causing methane breeding problems.	X		
(12)(C)1.I.	Salvaged materials removed daily or stored in aesthetically acceptable containers or enclosures.	X					(15)(C)1.F.	Fire extinguishers provided on all solid waste handling equipment.	X		
(12)(C)1.J.	Cover applied at the end of each operating day regardless of weather in a compacted layer not less than six inches thick. Cover material available in all weather conditions.	X					(15)(C)1.G.	All fires in wastes being delivered to the site or which occur at the working face or within equipment extinguished.	X		
(12)(C)1.K.	Cover applied to completed areas of the landfill idle more than 60 days in a compacted layer not less than one foot thick.	X					(15)(C)1.H.	Communications equipment available.	X		
(12)(C)1.L.	Cover applied to completed areas of the landfill in a compacted layer not less than two feet thick overlain by at least one foot of soil, as required, capable of supporting vegetation.	X					(15)(C)1.I.	Driveways prohibited.	X		
(12)(C)1.M.	Final side slopes not to exceed 3:1 (V:H).	X					(15)(C)1.J.	Controlled access to site by established roadways and limited to hours when operating personnel are on duty.	X		
(12)(C)1.N.	Vegetation established within one hundred and eighty days of application or regrading of cover required by (12)(C)1.J. and K.	X					(15)(C)1.K.	Traffic controlled and directed to distinguish dumping points.	X		
							(15)(C)1.L.	Site dust controlled for safety purposes and to prevent nuisance.	X		
							(16)(C)1.A.	Records of major problems and complaints maintained.	X		
							(16)(C)1.B.	Monitoring records maintained: a. leachate sampling and analyses, b. gas sampling and analyses, c. ground and surface water analyses.	X		
							(16)(C)1.C.	Records of vector control efforts maintained.	X		
							(16)(C)1.D.	Records of dust and litter control efforts maintained.	X		
							(16)(C)1.E.	Records of quantity of waste handled maintained.	X		
							(16)(C)1.F.	Records of description, sources and volume of special wastes listed in subsection (12)(a) maintained.	X		

REMARKS: Due to adverse weather conditions, 1 acre of water was found pooled in quarry. Possibility of water/waste contact is minimal. Pumping operations are removing the water and removed liquid being in proximity to the landfill is being treated as would leachate. No problems anticipated.

BY: Kevin Arnold
Signature of Inspector

OFFICE: ST. Louis